

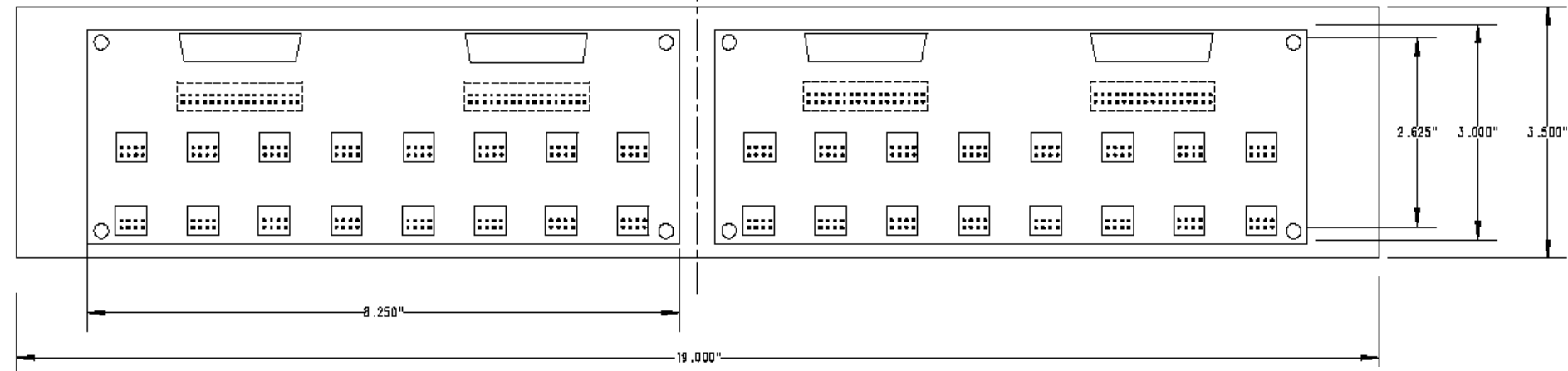


BLS-to-ADF Transition

- More detail can be found on my web page:
 - <http://www-d0.fnal.gov/~alstone/D0Work/L1CAL/l1cal.html>
- Work in progress
 - Nine pleated foil cables are being produced by Sub-Sem
 - We will need 160 + spares
 - I am proceeding with 10% for all parts and pieces
 - Sub-Sem order arrived last week, but Johnny Green sent them back to have the pleating redone - expect back any day now
 - Schematics for wiring, patch panels and paddle cards are done
 - John Fogelsong has ordered some connectors in order to make the patch panels
 - The prototype PCBs for patch panel and paddle cards will be done by technicians at Fermilab
- On schedule for prototype testing at the end of August



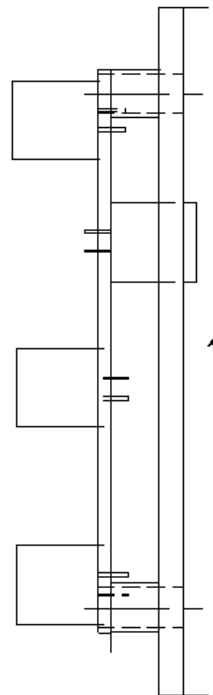
Patch Panel



We need 40 2u patch panels.

**There are test point connectors on the front of each panel.
The BLS and pleated foil connectors are on the rear.**

**This schematics and others are linked from my web page.
John Fogelsong is updating the files regularly.**





The Cost

- Three components to the BLS-to-ADF Transition System
 - Pleated Foil Cables x160
 - Patch Panels x40
 - Paddle Cards x80
- Johnny Green worked up an estimate for the patch panels and paddle cards and pleated foil cables - \$35,000 + 10%.
 - I still need to review the itemization. The file is linked from my web page so you can review it as well.
- We are working to build a 5% system for prototyping and testing.



To Do

- Cable mock-up
 - The volume and flow of the cables to and from the ADF backplane is non-trivial. Strongly recommend using scrap cable, a 6u crate and an empty chassis or two to study this issue.
 - Are the cables the right length? Support and strain relief?
 - Interference with power supply?
- Testing of parts and pieces as they come in
 - Once the pleated foils arrive, we can begin looking at signals from a pulse generator.
 - With the first patch panel, we can try to use the BLS cables from the splitter board, and look at preamp pulsed or possibly physics triggered signals.
- Review schedule
- Set up racks and power
- ??